

Name: \_\_\_\_\_

**at1110paper\_\_practice\_\_test (v50)**

1. Solve the equation.

$$(3x + 2)(7x + 5) = 0$$

2. Expand the following expression into standard form.

$$(3x + 7)^2$$

3. Solve the equation.

$$10x^2 + 22x + 22 = 5x^2 + 3x + 4$$

4. Expand the following expression into standard form.

$$(5x + 6)(5x - 6)$$

5. Factor the expression.

$$9x^2 - 64$$

6. Expand the following expression into standard form.

$$(9x - 4)(5x + 3)$$

7. Solve the equation with factoring by grouping.

$$15x^2 - 10x + 12x - 8 = 0$$

8. Factor the expression.

$$x^2 + 6x + 8$$